

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP 03/14252

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01B11/03 G01B5/008 G01B21/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01B B66D G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 659 220 A (BRONTE JOSEPH J ET AL) 21 April 1987 (1987-04-21)  column 2, line 57 - column 6, line 24; figures 1-3	1-6,8, 11,13, 14, 17-19, 22,25, 31-33
X	US 6 442 503 B1 (BENGALA MORENO) 27 August 2002 (2002-08-27)  column 5, line 44 - column 7, line 39; figures 1-5  ----- -/--	1-6,8, 11,13, 14, 17-19, 22,25, 31-33

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "S" document member of the same patent family

Date of the actual completion of the international search

22 April 2004

Date of mailing of the international search report

07. 07. 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Beyfuß, M

# INTERNATIONAL SEARCH REPORT

International Application No

PO 03/14252

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>US 5 297 055 A (JOHNSTONE RICHARD) 22 March 1994 (1994-03-22)</p> <p>column 6, lines 39-59 column 7, line 64 - column 9, line 13; figures 4,5</p>	<p>1-6,8, 11,13, 14, 17-19, 22,25, 31-33</p>
A	<p>-----</p> <p>DE 10 11 130 B (FROELICH &amp; KLUEPFEL MASCHINENF) 27 June 1957 (1957-06-27) paragraphs [0018] - [0023]; figures 1,2</p> <p>-----</p>	<p>1-33</p>
A	<p>WO 02/25207 A (CHRISTOPH RALF ;WERTH MESSTECHNIK GMBH (DE)) 28 March 2002 (2002-03-28) page 8, line 13 - page 14, line 2; figures 1-9</p> <p>-----</p>	<p>1-33</p>

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14252

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4659220	A	21-04-1987	DE 3584222 D1 EP 0179309 A2 JP 61099845 A	31-10-1991 30-04-1986 17-05-1986
US 6442503	B1	27-08-2002	EP 0851206 A1 AT 268464 T JP 10206123 A US 6061645 A	01-07-1998 15-06-2004 07-08-1998 09-05-2000
US 5297055	A	22-03-1994	AU 649023 B2 AU 7335691 A CA 2079334 A1 CA 2206718 A1 DE 69119762 D1 DE 69119762 T2 EP 0524943 A1 JP 3302013 B2 JP 2000512378 T KR 162906 B1 WO 9116673 A1	12-05-1994 11-11-1991 21-10-1991 21-10-1991 27-06-1996 24-10-1996 03-02-1993 15-07-2002 19-09-2000 01-05-1999 31-10-1991
DE 1011130	B	27-06-1957	NONE	
WO 0225207	A	28-03-2002	AU 1394302 A CN 1466673 T WO 0225207 A1 EP 1319164 A1 JP 2004509346 T	02-04-2002 07-01-2004 28-03-2002 18-06-2003 25-03-2004